

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	16 October 2022
Team ID	PNT2022TMID10333
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Registration Form or Google account
FR-2	User Confirmation	Confirmation via Email and OTP
FR-3	User Login	Using the registered email id and password as login credentials
FR-4	Dashboard	Display current rainfall forecasting
FR-5	Rainfall Prediction	Train and predict the rainfall
FR-6	Crop Suggestion	Train and recommend the sowing crop based on soil and weather parameter

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The Farmer and other people can easily use the application and it is user friendly to prior knowledge is required for using it
NFR-2	Security	Providing secure system requirements and then determine authenticity, originality and security
NFR-3	Reliability	The system will provide the prediction without any errors and failures for a specific time
NFR-4	Performance	Predictions are as same as the true values, so the performance is higher
NFR-5	Availability	Available to different group of farmers for 24/7
NFR-6	Scalability	The Application should be in the way of adding new functionalities or modules without affecting the existing functionalities